

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING

PCT

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 71.1)

To:
WOORIN PATENT FIRM

2nd floor, Shinwon Bldg., 823-14, Yeoksam-Dong, Kangnam-Gu, Seoul City 135-080, Republic of Korea

Date of mailing
(day/month/year) 07 FEBRUARY 2005 (07.02.2005)

Applicant's or agent's file reference	IMPORTANT NOTIFICATION
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International application No. PCT/KR2003/002191	International filing date (day/month/year) 20 OCTOBER 2003 (20.10.2003)	Priority date (day/months/year) 21 OCTOBER 2002 (21.10.2002)
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Applicant

LG ELECTRONICS INC. et al

- The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
- REMINDER**
The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

<p>Name and mailing address of the IPEA/KR</p> <p> Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea</p> <p>Facsimile No. 82-42-472-7140</p>	<p>Authorized officer</p> <p>COMMISSIONER</p> <p>Telephone No. 82-42-481-5131</p>	
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Rec'd PCT/TO 20 APR 2005

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/KR2003/002191	International filing date (day/month/year) 20 OCTOBER 2003 (20.10.2003)	Priority date (day/month/year) 21 OCTOBER 2002 (21.10.2002)
International Patent Classification (IPC) or national classification and IPC IPC7 F25C 1/24		
Applicant LG ELECTRONICS INC. et al		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 19 MAY 2004 (19.05.2004)	Date of completion of this report 07 FEBRUARY 2005 (07.02.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer KIM, Sang Wook Telephone No. 82-42-481-5476 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/002191

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed
- ☐ the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement) under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the drawings:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/002191

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-9	YES
	Claims		NO
Inventive step (IS)	Claims	1-9	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: US 6351955 A
D2: KR 1998-56368 A
D3: KR 2000-19389 A

The present invention relates to an ice maker having a fan assembly. It comprises a main body and a fan assembly mounted to the main body by means of resilient mounting hooks. It also comprises partition plates to define a cold air flow passage, and a discharge duct is formed integrally to communicate with the cold air flow passage. A box fan unit is installed in the cold air flow passage, and mounting ribs corresponding to opposite corners of the box fan unit are formed on first and second housing portions.

D1 discloses an ice maker for use in a refrigeration apparatus as well as a method of optimizing ice production in an ice maker. The ice maker has a mold and a fan selectively operable to direct moving cold air past the mold during the ice formation process.

D2 discloses a water supply regulator of an ice maker comprising a water supply valve controller to supply water to an ice freezing container according to the water supply time controlled by a water supply time regulator.

D3 discloses an auto ice maker for a hot/cold water purifier which is capable of refrigerating the water filled in a water tank indirectly by adjusting a removable ice maker to correspond to the purifier.

Novelty

None of the prior art documents D1, D2 and D3 disclose an ice maker having a fan assembly and a fan assembly control method, as described in claims 1-9. Accordingly, the subject matter of claims 1-9 is novel under PCT Article 33(2).

(Continued on Supplemental Sheet.)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box V.

Inventive Step

The ice maker having a fan assembly comprising partition plates to define a cold air flow passage, a discharge duct, a box fan unit, and mounting ribs formed on first and second housing portions is not fairly suggested in the prior art documents D1, D2 and D3, and is not rendered obvious to a person skilled in the art. Therefore, the subject matter of claims 1-9 is considered to involve an inventive step under PCT Article 33(3).

Industrial Applicability

Claims 1-9 are considered to be industrially applicable under PCT Article 33(4).